

Web Application for Monitoring Large-scale Virtualized Computing Resources

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The Flask framework is used for implementing a simple web app that allows any user to visualize and monitor computing resources that it has access to. The resources are virtualized, deployed, and managed through the OpenStack infrastructure. Within the web app, the user can see the entire set of virtual machines as a topological view or check system information as graphical representations (i.e., pie charts, histograms, and bar charts with machine status, network information, system metrics, and so on). These features can help any scientist dealing with complex simulations that require computational power, by granting a quick way of checking potential issues on the machines executing calculations.

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